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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,454	08/13/2003	Eugene P. Marsh	MI22-2382	2187
21567	7590 03/25/2005		EXAMINER	
WELLS ST. JOHN P.S.			VU, HUNG K	
	ST AVENUE, SUITE 1300 WA 99201		ART UNIT	PAPER NUMBER
•			2811	
			DATE MAILED: 03/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	6%					
:	Application No.	Applicant(s)				
	10/642,454	MARSH, EUGENE P.				
Office Action Summary	Examiner	Art Unit				
	Hung Vu	2811				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		·				
1) Responsive to communication(s) filed on						
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 29-37 and 40-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 29-37 and 40-43 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	ammer. Note the attached Office	Action of form F 10-102.				
<u> </u>		(1) (6)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/13/3.9/9/4,1/18/. Paper No(s)/Mail Date 8/13/3.9/9/4,1/18/. Paper No(s)/Mail Date 8/13/3.9/9/4,1/18/. Paper No(s)/Mail Date 9/13/3.9/9/4,1/18/.						

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 29, 33-37 and 40-43 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 5-10 of U.S. Patent No. 5,990,559. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 29 and 33-37 are generic to claims 5-10 of U.S. Patent No. 5,990,559. The claimed invention (claims 29, 33-37 and 40-43) of the present application is a mere broader version of the claimed invention (claims 5-10 and 12-15) of the above identified U.S. Patent with similar intended scope, thus allowing unjustified or improper timewise extension of the "right to exclude" granted by a U.S. Patent No. 5,990,559.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 29, 33 and 37 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakamura (PN 6,232,629, of record).

Nakamura discloses a capacitor comprising,

a semiconductive substrate (102);

a roughened platinum layer (112) over the substrate, the roughened platinum layer comprising columnar platinum pedestals terminating in dome-shaped tops.

Regarding claim 33, Nakamura discloses the roughened platinum layer has a continuous surface characterized by columnar platinum pedestals, wherein the column platinum pedestals have heights greater than or equal to about one-third of a total thickness of the roughened platinum. Note Figures 1 - 35 (especially Figures 2, 3A, 7 - 10D, and 24 - 32) of Nakamura.

Regarding claim 37, Nakamura discloses the circuit further comprising an adhesion layer between the platinum layer and the substrate, the adhesion layer comprising at least one of IrO₂, RuO₂, RhO₂, or OsO₂.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 30-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura (PN 6,232,629, of record).

Regarding claims 30 and 34-36, Nakamura discloses the claimed invention including the circuit as explained in the rejection above. Nakamura further disclose the roughened platinum layer is continuous over an area of the substrate. Nakamura does not disclose the value of the area of the substrate and the thickness of the pedestals. Although Nakamura does not teach the value of the area and the thickness of the pedestals, as that claimed by Applicants, however, it would have been obvious to one having ordinary skill in the art at the time the invention was made to form the substrate having the desired area and the platinum pedestals having a desired thickness, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Regarding claim 31, Nakamura discloses the platinum layer comprises hemispherical grain platinum.

Regarding claim 32, Nakamura discloses the claimed invention including the circuit as explained in the rejection above. Nakamura does not disclose the area of the substrate comprises a square. However, it would have been obvious to one of ordinary skill in the art to form the substrate having the shape of a square since it is well settled that, the change in shape of the substrate was a matter of design choice which a person of ordinary skill in the art would have found obvious

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absent persuasive evidence that the particular configuration of the substrate was significant. *In re Dailey*, 357 F.2d 669, 149 USPTO 47 (CCPA 1996).

4. Claims 40 and 41 are rejected under 35 U.S.C. 102(e) as being anticipated by Inaba et al. (H09-239891, of record).

Inaba et al. discloses, as shown in Figures (a) and (b), a capacitor comprising:

- a first capacitor electrode (3) (see Sections [0025] and [0026]);
- a second capacitor electrode (see Section [0028]);
- a dielectric layer (see Section [0027]) between the first and second capacitor electrodes;

wherein at least one of the first and second capacitor electrodes comprise roughened platinum, the roughened platinum having a thickness of from about 400Å to about 1000Å and comprising platinum pedestals that are at least about 300Å tall and terminate in dome-shaped tops (see Section [0015]).

Regarding claim 41, Inaba et al. discloses the roughened platinum layer comprises hemispherical grain platinum.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung K. Vu whose telephone number is (571) 272-1666. The examiner can normally be reached on Mon-Thurs 6:00-3:30, alternate Friday 7:00-3:30, Eastern Time.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on (571) 272-1732. The Central Fax Number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Vu

March 17, 2005

Hung Vu

Primary Examiner